

ABSTRACT OF THE DISCLOSURE

The present invention provides a cathode material for an electron beam device. The cathode material is characterized by the fact that it includes 0.5-9.0% by weight of a rare earth metal of the cerium group, 0.5-15.0% by weight of tungsten or rhenium or both tungsten and rhenium, 0.5-10% by weight of carbon and the remainder of iridium. The cathode material according to the invention has excellent plasticity, can be easily used for manufacturing an emitter of a small size, has high electron emission power, and has a low operation temperature, thereby having a long lifetime, and it is therefore useful for a cathode material for an electron beam device.